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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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04/30/2008

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195 EXAMINER

STEVENS, THOMAS H

ART UNIT PAPER NUMBER

2121

DATE MAILED: 04/30/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551.641	08/14/2006	Hirovuki Gotani	12480-000146/US	5470

TITLE OF INVENTION: SURGICAL OPERATION DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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30593 HARNESS, DI P.O. BOX 8910 RESTON, VA 20	7590 04/30, CKEY & PIERCI 0195		I he Stat addi tran	Certi reby certify that this es Postal Service wi ressed to the Mail smitted to the USPT	ficate Fee(s th suff Stop 1 O (571	of Mailing or Transi ) Transmittal is being icient postage for firs (SSUE FEE address 1) 273-2885, on the day	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
	_						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/551,641 ITTLE OF INVENTION	08/14/2006 : SURGICAL OPERATI	ION DEVICE	Hiroyuki Gotani		124	480-000146/US	5470
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/30/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	]			
STEVENS, T	ГНОМАЅ Н	2121	606-001000	•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.	ess an assignee is identi n in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON T	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or type data will appear on the part of the patent of the pa	wely, e firm (having as a ragent) and the name rneys or agents. If n printed.  pe) atent. If an assigne assignment.	membes of upon amo	er a 2 to to e is 3 entified below, the do	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	inted on the patent): $\Box$	Individual 🖵 Cor	poratio	on or other private gro	up entity 🗖 Government
	are submitted:  o small entity discount property of Copies	permitted)	<ul> <li>D. Payment of Fee(s): (Plean</li> <li>A check is enclosed.</li> <li>Payment by credit care The Director is hereby overpayment, to Depo</li> </ul>	rd. Form PTO-2038 vauthorized to charg	is attac	ched. equired fee(s), any del	
	tus (from status indicated s SMALL ENTITY statu		b. Applicant is no long	ger claiming SMAL	L ENT	TTY status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regis	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
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This collection of informan application. Confident submitting the completed this form and/or suggestion 1450. Alexandria	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bur- irginia 22313-1450 DC	CFR 1.311. The information U.S.C. 122 and 37 CFR U.SPTO. Time will vary rden, should be sent to the DNOT SEND FEES OF 10 NOT S	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	retain a benefit by the timated to take 12 m vidual case. Any cor er, U.S. Patent and T O THIS ADDRESS	e publi inutes nments 'radem SFNT	to which is to file (and to complete, including on the amount of times ark Office, U.S. Depart	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. for Patents. P.O. Box 1450.

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/551,641 08/14/2006		Hiroyuki Gotani	12480-000146/US	5470	
30593 75	90 04/30/2008		EXAMINER		
HARNESS, DIC	KEY & PIERCE, P.I	STEVENS, THOMAS H			
P.O. BOX 8910	0.5	ART UNIT	PAPER NUMBER		
RESTON, VA 201	95		2121		
		DATE MAILED: 04/30/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 199 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 199 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	   10/551,641	GOTANI, HIROYUKI				
Notice of Allowability	Examiner	Art Unit				
	THOMAS H. STEVENS	2121				
The MAILING DATE of this communication appea.  All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to the application filed 0	(OR REMAINS) CLOSED in this applied or other appropriate communication (GHTS). This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. <b>THIS</b>				
	<u>0, 20, 200</u> .					
2. ☑ The allowed claim(s) is/are <u>1-18</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM</li> </ol>	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the				
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm		'S AMENDMENT or NOTICE OF				
INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	1)  hereto or 2)  to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of						
each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/29/2005 & 09/29/2005  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), ee				



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#### **DETAILED ACTION**

1. Claims 1-18 were examined and allowed.

## Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance are considered allowable since when reading the claims in light of the specification, as per MPEP § 2111.01, In re Sneed, 710 F.2d 1544, 1548, 218 USPQ 385 (Fed. Cir. 1983), the invention discloses a space is formed of XYZ coordinate axes, the master comprises: an distal operation (pg.3, line 9) section that is to be held by a finger of the operator; a first sensor (pg. 3, line 10) that detects a pressure applied on the distal operation (pg.3, line 9)section by the finger of the operator; a second sensor (pg. 3, line 12) that detects movement of the distal operation (pg.3, line 9) section along an orientation of an X-axis (pg. lines 13-14); a third sensor (pg. 3, line 12) that detects movement of the distal operation (pg.3, line 9)section along an orientation of a Y-axis; a fourth sensor (pg. 3, lines 15-16) that detects movement of the distal operation (pg.3, line 9)section in along an orientation of a Z-axis; a fifth sensor (pg. 3, line 17) that detects rotation of the distal operation (pg.3, line 9) section about the Z-axis; a sixth sensor that detects flexion/extension of a wrist of the operator; a seventh sensor (pg. 3, line 20)that detects ulnar/radial deviation (pg. 3, line 20) of the wrist of the operator (pg. 3, lines 20-21); and an eighth sensor (pg. 3, line 21)that detects rotation of the wrist of the operator; and when an orientation of forward/backward movement (pg. 3, lines 22-23) of the holder is indicated by Z'-axis, and axes each of which are orthogonal to the

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Z'-axis are indicated by an X'-axis and a Y'-axis, the X'Y'Z' coordinate axes being an orthogonal coordinate system (pg. 9, lines 17-18), the slave comprises an arm supporting the holder (pg. 3, lines 6-7); the holder comprises a nipping section for pinching an operation appliance or an affected area (pg. 3, lines 27-29), and a base section supporting the nipping section (pg.3, line 29); the nipping section increases/reduces a degree of pinching in reaction (pg.13, lines 7-9) to the pressure applied to the distal operation (pg.3, line 9)section and detected by the first sensor; the base section moves respectively along orientations of the X', Y', and/or Z' axes corresponding to respective movement amounts detected (pg. 4, lines 1-5) by the second sensor (pg. 3, line 12) to the fourth sensor, and rotates about the Z'-axis corresponding to a rotation amount detected by the fifth sensor (pg. 4, lines 3-5); and the arm rotates on respective joints in the arm corresponding to amount and orientation of movement detected by the sixth sensor (pg. 4, lines 5-9) and by the seventh sensor, and rotates on an inner axis in accordance with a rotation amount detected by the eighth sensor (pg. 4, lines 5-9), to which none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-

3715.

If attempts to reach the examiner by telephone are unsuccessful, please contact

examiner's supervisor Mr. Albert Decady (571-272-3819). The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov.. Answers to

questions regarding access to the Private PAIR system, contact the Electronic Business

Center (EBC) (toll-free (866-217-9197)).

/Albert Decady /

Supervisory Patent Examiner

Tech Center 2100